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Amendments to the Claims:

This listing of Claims will replace all prior versions and listings of Claims in the Application.

Listing of Claims:

Please Amend the Claims as Follows:

Claim 1 (currently amended): A focal plane array (FPA) camera comprising:

- (I) a tunable voltage source adapted to supply a positive bias voltage and a negative bias voltage, the voltage source comprising:
 - (IA) a positive terminal; and
 - (IB) a negative terminal;
- (II) a top contact coupled to the positive terminal of the voltage source;
- (III) a bottom contact coupled to the negative terminal of the voltage source;
- (IV) a substantially-transparent substrate coupled to the bottom contact, the substantially-transparent substrate being adapted to admit light; and
- (V) a matrix of detectors, each detector comprising:
 - (VA) a top surface coupled to the top contact;
 - (VB) a bottom surface coupled to the substantially-transparent substrate, the bottom surface being substantially parallel to the top surface;
 - (VC) side surfaces extending from the top surface to the bottom surface, each side surface being substantially non-parallel to an opposing side surface; and

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- (VD) first-wavelength quantum-well infrared photodetector (QWIP) elements, each first-wavelength QWIP element being adapted to detect energy at a first range of wavelengths when the voltage source supplies the positive bias; and
- (VE) second-wavelength QWIP elements, each second-wavelength QWIP element being adapted to detect energy at a second range of wavelengths when the voltage source supplies the negative bias, the second range of wavelengths being different from the first range of wavelengths.

Claim 2 (original). The camera of claim 1:

wherein each first-wavelength QWIP element is a first quantum well adapted to detect energy at a first wavelength;

wherein each second-wavelength QWIP element is a second quantum well adapted to detect energy at a second wavelength; and

wherein the first quantum well and the second quantum well are separated by a blocking barrier.

Claim 3 (original). The camera of claim 1:

wherein each first-wavelength QWIP element is a first superlattice of quantum wells;
and

wherein each second-wavelength QWIP element is a second superlattice of quantum wells.

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Claim 4 (currently amended). A multi-wavelength detector system comprising:

- (I) a focal plane array (FPA) camera comprising:
 - (IA) a tunable voltage source adapted to supply a first bias voltage, the voltage source further being adapted to supply a second bias voltage;
 - (IB) first-wavelength detectors coupled to the tunable voltage source, the first-wavelength detectors having non-parallel sides, the first-wavelength detectors being adapted to detect energy at a first range of wavelengths when the tunable voltage source supplies the first bias voltage, the first-wavelength detectors further being adapted to generate photocurrents proportional to the detected energy at the first range of wavelengths; and
 - (IC) second-wavelength detectors being coupled to the tunable voltage source, the second-wavelength detectors having non-parallel sides, the second-wavelength detectors being adapted to detect a second range of wavelengths when the tunable voltage source supplies the second bias voltage, the second-wavelength detectors further being adapted to generate photocurrents proportional to the detected energy at the second range of wavelengths; and
- (II) a processor coupled to the FPA camera, the processor being configured to generate a first-wavelength two-dimensional image, the first-wavelength two-dimensional image being generated from the photocurrents proportional to the detected energy at the first range of wavelengths, the processor further being configured to generate a second-wavelength two-dimensional image, the second-wavelength two-dimensional image

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being generated from the photocurrents proportional to the detected energy at the second range of wavelengths.

Claim 5 (original). The system of claim 4, further comprising:

a display adapted to display the first-wavelength two-dimensional image, the display further being adapted to display the second-wavelength two-dimensional image.

Claim 6 (original). The system of claim 5, wherein the display is further adapted to substantially concurrently display the first-wavelength two-dimensional image and the second-wavelength two-dimensional image.

Claim 7 (currently amended). A detector comprising:

a first contact;

a second contact;

a substantially-transparent substrate coupled to the second contact, the substantially-transparent substrate being configured to admit light;

a tunable voltage source electrically coupled to the first contact and the second contact, the tunable voltage source being adapted to supply a first bias voltage between the first contact and the second contact, the tunable voltage source further being adapted to supply a second bias voltage between the first contact and the second contact;

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a top coupled to the first contact;

a bottom coupled to the substantially-transparent substrate, the bottom adapted to receive the light admitted through the substantially-transparent substrate;

sides extending from the top to the bottom, each side being substantially non-perpendicular to the bottom, each side being adapted to redirect the admitted light;

a first-wavelength quantum-well infrared photodetector (QWIP) element adapted to detect energy proportional to a first range of wavelengths when the tunable voltage source supplies the first bias voltage; and

a second-wavelength QWIP element adapted to detect energy proportional to a second range of wavelengths when the tunable voltage source supplies the second bias voltage.

Claim 8 (original). The detector of claim 7:

wherein the first contact is a metal contact; and

wherein the second contact is a metal contact.

Claim 9 (original). The detector of claim 7, wherein each side is substantially non-parallel to an opposing side.

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Claim 10 (original). The detector of claim 7:

wherein each first-wavelength QWIP element is a first quantum well adapted to detect energy at a first wavelength;

wherein each second-wavelength QWIP element is a second quantum well adapted to detect energy at a second wavelength; and

wherein the first quantum well and the second quantum well are separated by a blocking barrier.

Claim 11 (currently amended). The detector of claim 7:

wherein each first-wavelength QWIP element is a first superlattice of quantum wells, the first superlattice of quantum wells being adapted to detect energy at a first range of wavelengths; and

wherein each second-wavelength QWIP element is a second superlattice of quantum wells, the second superlattice of quantum wells being adapted to detect energy at a second range of ~~wavelengths~~. Wavelengths; and

wherein an energy relaxation layer is interposed between the first superlattice of quantum wells and the second superlattice of quantum wells.

Claim 12 (original). A voltage-tunable multi-color infrared (IR) detector element comprising:

a substantially-planar surface adapted to admit light; and

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means for redirecting the admitted light.

Claim 13 (original). A voltage-tunable multi-color infrared (IR) detector element comprising:

a substantially-planar surface adapted to admit light; and

sides extending from the substantially-planar surface, each side being substantially non-perpendicular to the substantially-planar surface, each side being adapted to redirect the light admitted through the substantially-planar surface.

Claim 14 (original). The detector element of claim 13, wherein each side is substantially non-parallel to an opposing side.

Claim 15 (original). The detector element of claim 13, wherein each voltage-tunable multi-color IR detector comprises:

a first superlattice of quantum wells, the first superlattice being adapted to detect energy at a first range of wavelengths; and

a second superlattice of quantum wells, the second superlattice being adapted to detect energy at a second range of wavelengths.

Claim 16 (original). The detector element of claim 13, wherein each voltage-tunable multi-color IR detector comprises:

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a first quantum well adapted to detect energy at a first wavelength; and
a second quantum well adapted to detect energy at a second wavelength.

Claim 17 (original). A light-detection method comprising the steps of:

receiving incident radiation;
reflecting the incident radiation at an angled surface; and
directing the reflected radiation through a voltage-tunable multi-color infrared (IR)
detector element.

Claim 18 (original). The method of claim 17, further comprising the step of:

supplying a first bias voltage to the voltage-tunable multi-color IR detector element to
detect energy at a first range of wavelengths.

Claim 19 (original). The method of claim 18, further comprising the step of:

generating a first-wavelength image, the first-wavelength image being generated from
the detected energy at the first range of wavelengths.

Claim 20 (original). The method of claim 18, further comprising the step of:

supplying a second bias voltage to the voltage-tunable multi-color IR detector element
to detect energy at a second range of wavelengths.

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Claim 21 (original). The method of claim20, further comprising the step of:

generating a first-wavelength image, the first-wavelength image being generated from the detected energy at the first range of wavelengths; and

generating a second-wavelength image, the second-wavelength image being generated from the detected energy at the second range of wavelengths.